a second ac signal at quadrature with said first ac signal outputted from said second input terminal.

Claim 3. (currently amended) The quadrature frequency generator as described in claim 2, wherein said [in-phase] <u>first</u> ac signal is an in-phase voltage, and said [quadrature] <u>second</u> ac signal is a quadrature voltage.

Claim 4.(currently amended) The quadrature frequency generator as described in claim 3, wherein said single-stage analog multiplier is a differential multiplier, having:

a differential pair fed from a current source, which is controlled by said in-phase voltage, said output <u>terminal</u> is [derived from] the differential output of the differential pair; and said second ac voltage is [derived] <u>outputted</u> from the differential input of the differential pair.

Claim 5.(original) The quadrature frequency generator as described in claim 4, wherein said differential input is single-ended.

Claim 6. (original) The quadrature frequency generator as described in claim 4, wherein a capacitor is connected between said differential output to ac short-circuit said differential output.

Claim 7. (original) The quadrature frequency generator as described in claim 4, wherein said differential output is short-circuited to a supply voltage at ac ground.

Claim 8. (original) The quadrature frequency generator as described in claim 4, wherein the transconductance of said current source is equal to one half of the transconductance of one of the differential pair, so that the amplitude of the quadrature ac voltage is equalized to the in-phase voltage.

Claim 9. (original) The quadrature frequency generator as described in claim 4, wherein said output is single-ended.

Claim 10. (original) The quadrature frequency generator as described in claim 9, wherein a capacitor is connected between said single-ended output and ac ground.

Claim 11. (original) The quadrature frequency generator as described in claim 10, wherein said single-ended output is connected to a biasing power supply.

Claims12-14 (withdrawn)

Claim 15. (canceled).

Claim 16 (currently amended) A method of generating a quadrature frequency signal [as described in claim 15, wherein said multiplier is] from an in-phase signal, comprising the steps of: